

Patent Abstracts of Japan

PUBLICATION NUMBER : 10089057
PUBLICATION DATE : 07-04-98

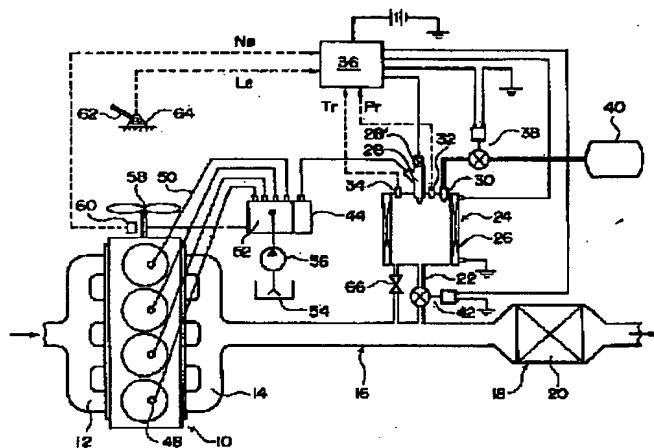
APPLICATION DATE : 18-09-96
APPLICATION NUMBER : 08282843

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INT.CL. : F01N 3/36 B01J 29/06 F01N 3/08
F01N 3/24 F01N 3/24 F02M 27/02
F02M 27/02

TITLE : EXHAUST EMISSION CONTROL
DEVICE OF ENGINE



ABSTRACT : PROBLEM TO BE SOLVED: To simplify a structure of a fuel modifying reactor, to reduce cost, and to reduce consumption of modified fuel in an exhaust emission control device for allowing hydrocarbon formed by modifying fuel to flow into an exhaust passage upstream from a catalyst in purifying exhaust gas of an engine, in particular, a diesel engine by using a molecular sieving structure catalyst (for instant, a zeolite catalyst).

SOLUTION: A fuel modifying reactor provided with a fuel injection valve 28, a compressed air supplying nozzle 30, a pressure sensor 32 for detecting pressure in a reactor, a temperature sensor 34 for detecting the temperature in the reactor, and an electric heater 26 is connected to the upstream side of a catalyst converter 18 to be interposed in an exhaust passage of an engine 10, and formed modifying hydrocarbon is supplied to the catalyst converter 18. Just after the engine 10 is started, compressed air is supplied into the reactor, pressure in the reactor is kept high, and fuel is injected. The fuel injection amount is controlled according to the operating state of the engine.

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